

ABSTRACT

An information server with power-aware
adaptation that enables power reduction while
5 minimizing the performance impact of power reduction.
An information server according to the present
techniques includes a transaction prioritizer that
determines which of a set of memory subsystems in the
information server is to cache a set of data
10 associated with each incoming information access
transaction and further includes a power manager that
performs a power adaptation in the information server
in response to a set of ranks assigned to the memory
subsystems. An association of priorities of the
15 incoming information access transactions to
appropriately ranked memory subsystems and the
judicious selection of memory subsystems for power
adaptation enhances the likelihood that higher
priority cached data is not lost during power
20 adaptation.